

**ABSTRACT**

Described are techniques used with application monitoring in connection with performing Web Services. Associated with each application performing a service are one  
5 or more application servers and associated stream sensors. The stream sensors filter received XML messages in accordance with a set of rules to gather data. The filtered data is gathered at each point and then may be aggregated locally for each transaction by an aggregation service. Data may be gathered from each aggregation service by a global aggregator. Rules are specified initially and may be revised during runtime while  
10 gathering data. Rules are evaluated at runtime in accordance with the data stream.